

List of UG Courses to be Created in Second Call**B.Sc (Agriculture)**

S.No	Courses
1.	Introductory Agro meteorology& Climate Change
2.	Principles of Organic Farming
3.	Farm Management, Production & Resource Economics
4.	Problematic Soils and Their Management
5.	Communication Skills and Personality Development
6.	Environmental Studies and Disaster Management
7.	Introduction to Forestry
8.	Intellectual Property Rights
9.	Commercial Plant Breeding
10.	Food Safety and Standards
11.	Geoinformatics and Nanotechnology and Precision Farming

B.F.Sc (Fisheries Science)

S.No	Courses
1	Fisheries Business Management and Entrepreneurship Development
2	Fish Food Organisms
3	Therapeutics in Aquaculture
4	Aquatic Ecology, Biodiversity and Disaster Management
5	Fish Canning Technology
6	Fish Products and Value Addition
7	Fish By-Products and Waste Utilization
8	Quality Assurance of Fish and Fishery Products
9	Navigation and Seamanship
10	Fisheries Policy and Law
11	Fisheries Co-operatives and Marketing

B.Tech (Agricultural Engineering)

S.No	Courses
1	Building Construction and Cost Estimation
2	Thermodynamics, Refrigeration and Air Conditioning
3	Theory of Machines
4	Web Designing and Internet Applications
5	Artificial Intelligence
6	Environmental Science and Disaster Management
7	Sprinkler and Micro Irrigation Systems
8	Engineering Properties of Agricultural Produce
9	Bio-energy Systems: Design and Applications
10	Remote Sensing and GIS Applications
11	Management of Canal Irrigation System
12	Plastic Applications in Agriculture
13	Precision Farming Techniques for Protected Cultivation
14	Water Quality and Management Measures
15	Mechatronics

B.Sc (Home Science)

S.No	Courses
1	Diffusion and Adoption of Homestead Technologies
2	Textile Science and Fabric Care
3	Techniques of Fabric Construction
4	Ergonomics and Appropriate Technologies
5	Food and Nutrition Policy and Agriculture
6	Marriage and Family Dynamics
7	Elementary Statistics
8	Technical Writing (English)
9	Introduction to rural sociology

B.Tech (Dairy Technology)

S.No	Courses
1	Energy Conservation and Management
2	Quality and Safety Monitoring in Dairy Industry
3	Microbiology of Fluid Milk
4	ICT in Dairy Industry and Introduction to Operations Research
5	Nutraceuticals and Functional Foods
6	Emerging Dairy Processing Technologies

B.Sc (Horticulture)

S.No	Courses
1	Dryland Horticulture
2	Precision Farming and Protected Cultivation
3	Apiculture, Sericulture and Lac Culture
4	Agro-meteorology and Climate Change
5	Entrepreneurship Development & Business Management

B.Sc (Forestry)

S.No	Courses
1	Introduction to Forestry
2	Dendrology
3	Forest Botany
4	Basic Mathematics
5	Geology and Soils
6	Wildlife Biology
7	Recreation & Urban Forestry
8	Principles of Agroforestry
9	Wood Anatomy
10	Climate Science
11	Forest Ecology and Biodiversity
12	Introduction to Agronomy and Horticulture
13	Plantation Forestry
14	Silviculture of Indian Trees
15	Rangeland and Livestock Management
16	Non-Timber Forest Products
17	Seed Technology & Nursery Management
18	Plant Physiology

19	Soil Biology & Fertility
20	Forest Mensuration
21	Forest Extension & Community Forestry
22	Wood Products and Utilization
23	Forest Hydrology and Watershed Management
24	Restoration Ecology
25	Plant Biochemistry
26	Forest Tribology & Anthropology
27	Wood Science and Technology
28	Forest Survey & Engineering
29	Ornithology & Herpetology
30	Logging and Ergonomics
31	Forest Inventory and Yield Prediction
32	Forest Protection
33	Forest Management
34	Tree Improvement
35	Forest Economics and Marketing
36	Forest Laws, Legislation and Policies
37	Plant Cytology and Genetics
38	Entrepreneurship Development & Business Management

39	Forest Biotechnology
40	Certification of Forest Products
41	Agroforestry Systems and Management
42	Wildlife Management
43	Theory and Practice of Silviculture
44	Geomatics
45	Statistical Methods & Experimental Designs
46	Environmental Studies and Disaster Management
47	Ethnobotany, Medicinal and Aromatic Plants

B.Tech (Biotechnology)

S.No	Courses
1	Basic Botany
2	Basic Zoology
3	Basic Mathematics – I
4	Basic Mathematics – II
5	Economics and Marketing
6	Human Ethics
7	Agricultural Informatics
8	Cell Biology
9	Basic Genetics
10	Introduction to Biotechnology
11	Molecular Biology
12	Recombinant DNA Technology
13	Introductory Bioinformatics
14	Plant Genetic Transformation
15	Electronics and Instrumentation in Biotechnology
16	Classical and Molecular Cytogenetics
17	Immunology
18	Molecular Genetics

19	Nanobiotechnology
20	Animal Biotechnology
21	Molecular Marker Technology
22	Genomics and Proteomics
23	IPR, Biosafety and Bioethics
24	Computational Biology
25	General Biochemistry
26	Enzymology and Enzyme Technologies
27	Biodiversity and its Conservation
28	Microbiology
29	Microbial Genetics
30	Plant Tissue Culture and its Applications
31	Principles and Applications of Plant Genetic Transformation
32	Applications of Genomics and Proteomics
33	Molecular Breeding in Field Crops
34	Molecular Breeding of Horticultural Crops and Forest Trees
35	Epigenetics and Gene Regulation
36	Principles and Procedures of Animal Cell Culture
37	Animal Genomics
38	Embryo Transfer Technologies

39	Transgenic Animal Production
40	Molecular Diagnostics
41	Molecular Virology Production
42	Microbial Biotechnology
43	Bio-prospecting of Molecules and Genes
44	Molecular Ecology and Evolution
45	Fundamentals of Molecular Pharming and Biopharmaceuticals
46	Food Biotechnology
47	Green Biotechnology
48	Programming for Bioinformatics
49	Bioinformatics Tools and Biological Databases
50	Structural Bioinformatics
51	Pharmacogenomics
52	Metabolomics and System Biology
53	Computational Methods for Data Analysis
54	Plant Physiology
55	Biomathematics
56	Biophysics
57	Basic Statistics
58	Biostatistics

59	Crop Production Technology
60	Production Technologies for Horticultural Crops
61	Basics of Plant Breeding
62	Breeding of Field Crops
63	Fundamentals of Crop Production
64	Anatomy and Physiology of Livestock
65	Introduction to Animal Breeding
66	Livestock Production and Management
67	Livestock Product Technology
68	Animal Health Care